

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11072-002001	Application No. 09/542,121
	Applicant Frank E. Ruch		
	Filing Date April 4, 2000	Group Art Unit 1761	

U.S. Patent Documents

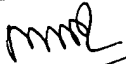
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate

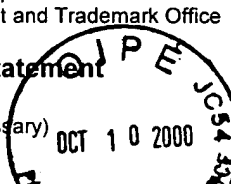
Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
mmr	AA	EP 0006035	Dec. 12, 1979	European	—	—		
	AB	WO 9213068 A	Aug. 6, 1992	PCT	—	—		
	AC	EP 0712935A	May 22, 1996	European	—	—		
mmr	AD	EP 0228726A	Jul 15, 1997	European	—	—		

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
mmr	AE	Chandrapati, Sailaja et al., "Nisin independent induction of the <i>nisA</i> promoter in <i>Lactococcus lactis</i> during growth in lactose or galactose," FEMS Microbiology Letters, 170:(1):191-198 (1999)
mmr	AF	Herman, R.E. et al., "Characterization of Plasmids and cloning of the β -Galactosidase Gene from <i>Streptococcus-Thermophilus</i> ," Ferretti, J.J. and R. Curtiss, III (eds), Streptococcal Genetics, pgs. 225-228 (1987) (Florida, USA, May 21-24, 1986. American Society for Microbiology: Washington, D.C. USA)

Examiner Signature 	Date Considered 3/13/02
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>mmr</i>	AA	3,629,073	12/21/71	Cayle	—	—	
	AB	3,718,739	2/27/73	Cayle	—	—	
	AC	4,016,293	4/5/77	Coughlin et al.	—	—	
	AD	4,141,857	2/27/79	Levy et al.	—	—	
	AE	4,257,884	3/24/81	Lim	—	—	
	AF	4,329,429	5/11/82	Fenton	—	—	
	AG	4,409,247	10/11/83	Baret et al.	—	—	
	AH	4,556,554	12/3/85	Calvo	—	—	
	AI	4,839,419	6/13/89	Kraemer et al.	—	—	
	AJ	5,071,763	12/10/91	Somkuti et al.	—	—	
	AK	5,153,128	10/6/92	Nakayama et al.	—	—	
	AL	5,160,745	11/3/92	DeLuca et al.	—	—	
	AM	5,198,351	3/30/93	Somkuti et al.	—	—	
	AN	5,702,723	12/30/97	Griffin	—	—	
	AO	5,736,374	4/7/98	Berka et al.	—	—	
	AP	5,766,907	6/16/98	Chang et al.	—	—	
<i>mmr</i>	AQ	5,914,248	6/22/99	Kuipers et al.	—	—	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>mmr</i>	AR	WO 89/07139	10.08.89	PCT	—	—		
<i>mmr</i>	AS	0 355 036 A1	21.02.90	EPO	—	—		
	AT							
	AU							
	AV							

Other Documents (include Author, Title, Date, and Place of Publication)		
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mmr	AW	Champluvier et al., "Preparation of properties of β -galactosidase confined in cells of <i>Kluyveromyces</i> sp." Enzyme Microb. Technol., Vol 10, pages 611-617 (1988).
	AX	Marteau et al. "Effect of the microbial lactase (EC 3.2.1.23) activity in yoghurt on the intestinal absorption of lactose: an in vivo study in lactase-deficient humans" British Journal of Nutrition, Vol 64, pages 71-79 (1990). ✓
	AY	Rao, "Oral supplements to improve lactose digestion and tolerance" Food Science and Technology International, Vol. 3, pages 87-92 (1997). ✓
	AZ	Ruyter et al., "Functional Analysis of Promoters in the Nisin Gene Cluster of <i>Lactococcus lactis</i> " Journal of Bacteriology, Vol. 178, pages 3434-3439 (1996). ✓
	AAA	Ryan, "Living with Lactose Intolerance" Today's Chemist at Work, pages 49-52 (1998).
	ABB	Somkuti et al., "Lactose Hydrolysis by Lactose Transport System Defective (lacS) <i>Streptococcus thermophilus</i> " Biotechnology and Applied Biochemistry, Vol. 12, pages 351-356 (1990.) ✓
	ACC	Somkuti et al., "Permeabilization of <i>Streptococcus thermophilus</i> and the expression of beta-galactosidase" Enzyme Microb. Technol., Vol. 16, pages 573-576 (1994). ✓
	ADD	Somkuti et al., "Permeabilized <i>Streptococcus thermophilus</i> in the preparation of low-lactose milk" Biotechnol. Appl. Biochem., Vol. 21, pages 23-29 (1995). ✓
	AEE	Somkuti et al., "Sensitivity of <i>Streptococcus thermophilus</i> to Chemical Permeabilization" Current Microbiology, Vol. 32, pages 101-105 (1996). ✓
	AFF	Somkuti et al., "Permeabilization of <i>Streptococcus thermophilus</i> and <i>Lactobacillus delbrueckii</i> subsp. <i>Bulgaricus</i> with Ethanol" Current Microbiology, Vol. 36, pages 202-206 (1998). ✓
mmr	AGG	Wang et al., "New Preparation for oral administration of digestive enzyme lactase complex microcapsules", Biomet., Art. Cells & Immob. Biotech., Vol. 21, pages 637-646 (1993). ✓

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